

4/12/12 4:45:26 PM W:\2011\1011006 - Old State House Roof Replacement\Drawings\E-Notes.dwg

ABBREVIATIONS

a	48" ABOVE FINISHED FLOOR
A/AMP	AMPERE
AC	ALTERNATING CURRENT
AF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPS INTERRUPTING CURRENT
APPROX	APPROXIMATE
ATC	AUTOMATIC TEMPERATURE CONTROL
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
C/B	CIRCUIT BREAKER
CKT	CIRCUIT
CLG	CEILING
DC	DIRECT CURRENT
DEG or °	DEGREE
DIA or Ø	DIAMETER
DN	DOWN
DWG	DRAWING
EFF	EFFICIENCY
EHC	ELECTRICAL HEATING CABLES
ELEC	ELECTRICAL
ELEV	ELEVATOR
EM	EMERGENCY
EMT	ELECTRIC METALLIC TUBING
F	FAHRENHEIT
FA	FIRE ALARM
FC	FOOT CANDLE
FT	FOOT OR FEET
GF	GROUND FAULT
GND	GROUND
H	HEIGHT
HP	HORSEPOWER
HR	HOUR(S)
HZ	FREQUENCY (CYC. PER SEC.)
IN	INCHES
JB	JUNCTION BOX
KVA	KILOVOLT AMPERE
KW	KILOWATT
L	LENGTH
LF	LINEAR FEET
MA	MILLIAMPERE
MC	METAL CLAD CABLE
MECH	MECHANICAL
MFR	MANUFACTURER
MH	METAL HALIDE
MLO	MAIN LUGS ONLY
N/A	NOT APPLICABLE
N.C.	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
NTS	NOT TO SCALE
P	POLE
PF	POWER FACTOR
PH / Ø	PHASE
PVC	POLYVINYL CHLORIDE
RD	ROOF DRAIN
RGS	RIGID GALVANIZED STEEL CONDUIT
RM	ROOM
RWL	RAIN WATER LEADER
SE	SECONDARY ELECTRIC SERVICE
SPDT	SINGLE POLE DOUBLE THROW
SPEC	SPECIFICATION
SPST	SINGLE POLE SINGLE THROW
SQ	SQUARE
SWBD	SWITCHBOARD
SW	SWITCH
TAG	IDENTIFICATION OF EQUIPMENT
TEL	TELECOMMUNICATIONS SERVICE
TP	TAMPERPROOF
TX	TRANSFORMER
TP	TYPICAL
V	VOLTAGE
VA	VOLT AMPERE
VIF	VERIFY IN FIELD
W	WATT
WG	WIREGUARD
WP	WEATHERPROOF

ELECTRICAL SYMBOLS

	LINEAR LIGHT FIXTURE
	SURFACE-MOUNTED FIXTURE
	SINGLE-POLE SWITCH
	TIME CLOCK
	PHOTOCELL
	DUPLEX RECEPTACLE
	RACEWAY UP/DOWN
	POWER WIRING
	SWITCH LEG WIRING
	CONTROL WIRING
	CIRCUIT BREAKER SIZE
	HOME RUN
	PANEL DESIGNATION
	SURFACE ELECTRICAL PANEL, 480Y/277 OR 480 VOLT
	SURFACE ELECTRICAL PANEL, 208Y/120 OR 208 VOLT
	SURFACE SPECIAL-PURPOSE PANEL OR CABINET
	TRANSFORMER
	ENCLOSED CONTROLLER
	ENCLOSED SWITCH
	ELECTRIC MOTOR
	JUNCTION BOX
	TERMINAL BOX
	RELAY IN ENCLOSURE
	CONTACTOR IN ENCLOSURE
EX	SUBLETTERS "EX" INDICATES EXISTING EQUIPMENT TO REMAIN INTACT
RE	SUBLETTERS "RE" INDICATES EXISTING EQUIPMENT TO BE DISCONNECTED AND REMOVED
*	* = a, b, clg, AF, GF, IG OR TP. WHEN TAGGED ABOVE IN THE ELECTRICAL SYMBOL LIST, REFER TO THE ABBREVIATION LIST

GENERAL NOTES

GENERAL

- THE PROJECT DRAWINGS AND SPECIFICATIONS ARE BASED ON THE CONSTRUCTION SPECIFICATIONS INSTITUTE (CSI) DOCUMENTATION FORMAT. SPECIFICATION AND DRAWING CONTENTS ARE ARRANGED BY TOPIC AND CATEGORY AND ARE NOT INTENDED TO AWARD DIVISION OF WORK.
- THE INTENT OF THESE DOCUMENTS IS FOR THE ELECTRICAL TRADES TO FURNISH AND INSTALL COMPLETE ELECTRICAL SYSTEMS. THE SPECIFIED ELECTRICAL AND SPECIAL SYSTEMS SHALL BE COMPLETE IN ALL RESPECTS; OPERATIONAL, TESTED, ADJUSTED, CALIBRATED, APPROVED BY THE AUTHORITIES HAVING JURISDICTION AND READY FOR BENEFICIAL USE BY THE OWNER.
- THE TRADES SHALL OBTAIN AND REVIEW ALL CONTRACT DOCUMENTS BEFORE SUBMITTING A BID. INFORMATION IS PROVIDED ON THE VARIOUS DRAWINGS, SCHEDULES, SPECIFICATIONS AND ALL OF THE VARIOUS DOCUMENTS IN THE BIDDING PACKAGE. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND FORM A TOTAL PROJECT DESIGN AND INFORMATION SOURCE FOR CONSTRUCTION PURPOSES.
- THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT. COORDINATE LOCATIONS OF EQUIPMENT WITH OTHER TRADES BEFORE AND DURING CONSTRUCTION. ANY MODIFICATION TO THE EQUIPMENT LAYOUT, REQUIRED FOR INSTALLATION, IS TO BE PERFORMED UNDER THE CONTRACT AGREEMENT, AT NO ADDITIONAL COST.
- REFER TO THE ARCHITECTURAL DRAWINGS FOR THE EXACT LOCATION AND MOUNTING HEIGHTS OF VARIOUS EQUIPMENT. ALL SUCH EQUIPMENT AND EQUIPMENT COLORS AND FINISHES SHALL BE COORDINATED WITH THE ARCHITECT; MOUNTING HEIGHTS SHALL BE APPROVED BY THE ARCHITECT.
- PERFORM ALL WORK IN COMPLIANCE WITH THE SPECIFICATIONS APPLICABLE CODES, ORDINANCES AND THE REGULATORY AGENCIES HAVING JURISDICTION; THE SPECIFICATIONS MAY EXCEED THE REQUIREMENTS OF THE CODE; IN WHICH CASE, THE SPECIFICATION MUST BE FOLLOWED.
- INSTALL ALL EQUIPMENT IN ACCESSIBLE LOCATIONS. WHERE EQUIPMENT MUST BE INSTALLED ABOVE AN INACCESSIBLE CEILING OR BEHIND A WALL, AN APPROPRIATE ACCESS DOOR SHALL BE PROVIDED AND THE LOCATION SHALL BE COORDINATED WITH THE ARCHITECT.
- WHERE A CONFLICT OCCURS BETWEEN THE DOCUMENTS, IT SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT; CARRY AS PART OF THE BID THE LARGER QUANTITY AND/OR MORE EXPENSIVE ITEM(S).
- BEFORE INSTALLATION, COORDINATE THE WORK WITH OWNER-FURNISHED EQUIPMENT INCLUDING REQUIRED SERVICE CONNECTIONS, FACTORY START UPS, AND INSTALLATION OF FIELD DEVICES.
- PROVIDE THE REQUIRED/SPECIFIED SLEEVES AND SEALS FOR PIPES OR CONDUIT PENETRATING INTERIOR AND EXTERIOR WALLS OR FLOOR SLABS.
- INSTALL FLOOR-MOUNTED EQUIPMENT ON A CONCRETE HOUSEKEEPING PAD.
- SEISMICALLY SUPPORT EQUIPMENT AS REQUIRED BY CODE, THE AUTHORITY HAVING JURISDICTION, AND/OR AS SPECIFIED. SUBMIT ENGINEERED INSTALLATION DETAILS PER THE SPECIFICATIONS. THE CONTRACTORS SEISMIC ENGINEER SHALL REVIEW THE INSTALLATION AND PROVIDE A REPORT ON THE FINDINGS.
- PROVIDE CONDUIT, AND ALL OTHER ACCESSORIES AS REQUIRED FOR PROPER AND PROFESSIONAL SYSTEMS INSTALLATION.
- TEST AND BALANCE ALL ELECTRICAL SYSTEMS. PROVIDE ADDITIONAL TESTS AS REQUIRED BY THE SPECIFICATIONS.
- DO NOT INSTALL PIPING OR DUCTWORK OVER ELECTRICAL PANELS, TRANSFORMERS, SPECIAL EQUIPMENT, ELEVATOR MACHINE ROOMS OR SHAFTS.
- DO NOT INSTALL ANY SYSTEMS IN OR THROUGH ELEVATOR MACHINE ROOMS THAT DO NOT SERVE THE ROOM. MAINTAIN A MINIMUM OF SEVEN (7) FOOT HEAD CLEARANCE IN THE ELEVATOR MACHINE ROOM.
- DO NOT INSTALL, IN STAIRWELLS OR STAIRWELL WALLS, PIPING, DUCTWORK, CONDUIT OR OTHER DEVICES OR EQUIPMENT NOT ASSOCIATED WITH OR SERVING THE RESPECTIVE STAIR.
- PROVIDE PIPE EXPANSION COMPENSATION FOR THE VARIOUS PIPING SYSTEMS. SUBMIT ENGINEERED DETAILS FOR APPROVAL AND VERIFY INSTALLATION IS IN ACCORDANCE WITH CODE. THE CONTRACTOR'S CONSULTING ENGINEER SHALL REVIEW THE INSTALLATION AND PROVIDE A REPORT ON THE FINDINGS.
- PROVIDE ADDITIONAL TRANSITIONS AND OFFSETS IN ALL CONDUIT FOR COORDINATION WITH BUILDING STRUCTURE AND CONSTRUCTION.
- NO MECHANICAL OR ELECTRICAL SYSTEM COMPONENTS MAY BE SUPPORTED FROM STRUCTURAL BRACED FRAMES.

RENOVATION

- THIS PROJECT INVOLVES THE RENOVATION OF AN EXISTING FACILITY; BEFORE SUBMITTING THE BID, CONTRACTORS SHALL VISIT THE SITE AND BECOME THOROUGHLY FAMILIAR WITH THE EXISTING CONDITIONS UNDER WHICH THE PROJECT IS TO BE COMPLETED.
- CONTRACTORS SHALL BE HELD RESPONSIBLE FOR ASSUMPTIONS, OMISSIONS OR ERRORS MADE AS A RESULT OF FAILURE TO BECOME FULLY FAMILIAR WITH THE EXISTING CONDITIONS.
- IT IS NOT THE INTENT OF THESE DOCUMENTS TO SHOW EVERY DEVICE, APPURTENANCE, WIRE OR CONDUIT TO BE REMOVED. MEP EQUIPMENT, UNITS, AND SYSTEMS NOT BEING REUSED, SHALL BE REMOVED IN THEIR ENTIRETY INCLUDING ASSOCIATED HANGERS, SUPPORTS, BASES, PADS, CONDUITS, WIRES, INSULATION, AND CONTROLS BACK TO THE POINT OF ORIGIN.
- EQUIPMENT, OR CONDUIT SHALL NOT BE ABANDONED IN-PLACE UNLESS SPECIFICALLY SO NOTED.
- PROPERLY DISPOSE OF DEMOLISHED EQUIPMENT IN COMPLIANCE WITH CODES, REGULATIONS, AND DEP STANDARDS; TURN OVER TO THE OWNER, EQUIPMENT SO INDICATED.
- RELOCATE EXISTING EQUIPMENT, DEVICES, PIPING, WIRING, AND RELATED SYSTEMS AS REQUIRED FOR CONSTRUCTION PURPOSES. ALL EXISTING SYSTEMS SHALL BE FULLY OPERATIONAL, INCLUDING RECONNECTION TO SERVICES AND UPGRADED SYSTEMS. ALL RELOCATED EQUIPMENT SHALL BE PROTECTED DURING CONSTRUCTION.
- PROVIDE TEMPORARY CONNECTIONS AND SYSTEM MODIFICATIONS AS REQUIRED FOR CONSTRUCTION AND PHASING PURPOSES.
- INCLUDE ALL WORK REQUIRED TO ALLOW PHASED CONSTRUCTION WHEN NECESSARY. COORDINATE WITH GENERAL CONTRACTOR/CONSTRUCTION MANAGER FOR PHASING REQUIREMENTS.
- ALL EXISTING EQUIPMENT, FIXTURES, AND DEVICES TO BE REMOVED AND RELOCATED SHALL BE FIELD VERIFIED FOR EXACT QUANTITY AND CONDITION; KEEP AN ACCURATE RECORD OF STORED EQUIPMENT AND ITS CONDITION.
- REBALANCE NEW AND EXISTING ELECTRICAL SYSTEMS ASSOCIATED WITH THE RENOVATION, INCLUDING RENOVATED AREAS AND AREAS AFFECTED BY SYSTEM MODIFICATIONS.
- SYSTEMS REQUIRING TO REMAIN IN OPERATION DURING DEMOLITION AND RENOVATION SHALL BE CAREFULLY PROTECTED FROM DAMAGE AND CONTAMINATION BY THE CONSTRUCTION PROCESS.

ELECTRICAL

- IT IS NOT THE INTENTION TO SHOW EVERY FITTING, WIRE, OR DEVICE. ALL SUCH ITEMS SHALL BE FURNISHED AND INSTALLED AS NECESSARY FOR A COMPLETE SYSTEM.
- CONCEAL RACEWAYS IN FINISHED AREAS. RACEWAYS WITHIN MECHANICAL AND ELECTRICAL ROOMS MAY BE SURFACE-MOUNTED.
- DO NOT INSTALL CONDUIT IN CONCRETE SLABS, UNLESS SPECIFICALLY APPROVED BY THE STRUCTURAL ENGINEER.
- BOND ALL OF THE FOLLOWING SERVICES TOGETHER PER THE NEC: POWER, TELECOMMUNICATIONS, CATV AND LIGHTNING PROTECTION.
- PROVIDE GROUND FAULT WEATHER PROOF RECEPTACLES AT ALL EXTERIOR LOCATIONS.

PANELBOARD SCHEDULE

GENERAL NOTES:

- SEE SPECIFICATION SECTION "PANELBOARDS" FOR FEATURES OF PANELBOARDS.
- VERIFY SIZE, QUANTITY AND TYPES OF CIRCUIT BREAKERS IN PANELBOARDS WITH PLANS, RISERS, SCHEDULES AND SPECIFICATION.
- ALL PANELBOARDS ARE LIGHTING AND APPLIANCE BRANCH CIRCUIT PANELBOARDS UNLESS LISTED OTHERWISE.

PANELBOARD DESIGNATION	VOLTAGE	MAIN BUS SIZE	MAIN OCPD SIZE	MOUNTING	POLE CAPACITY	MIN. AISC RATING	NOTES	CIRCUITS					
								AMPS	POLES	BRANCH	FEEDER	SPARE	NOTES
								20	2	6	—	2	A
LP3	208Y/120	225A	100A	SURFACE	42	22,000		20	1	3	—	23	
								—	—	—	—	—	

NOTES:

- PROVIDE 30 MA GROUND FAULT CIRCUIT INTERRUPTER CIRCUIT BREAKERS.

LUMINAIRE SCHEDULE

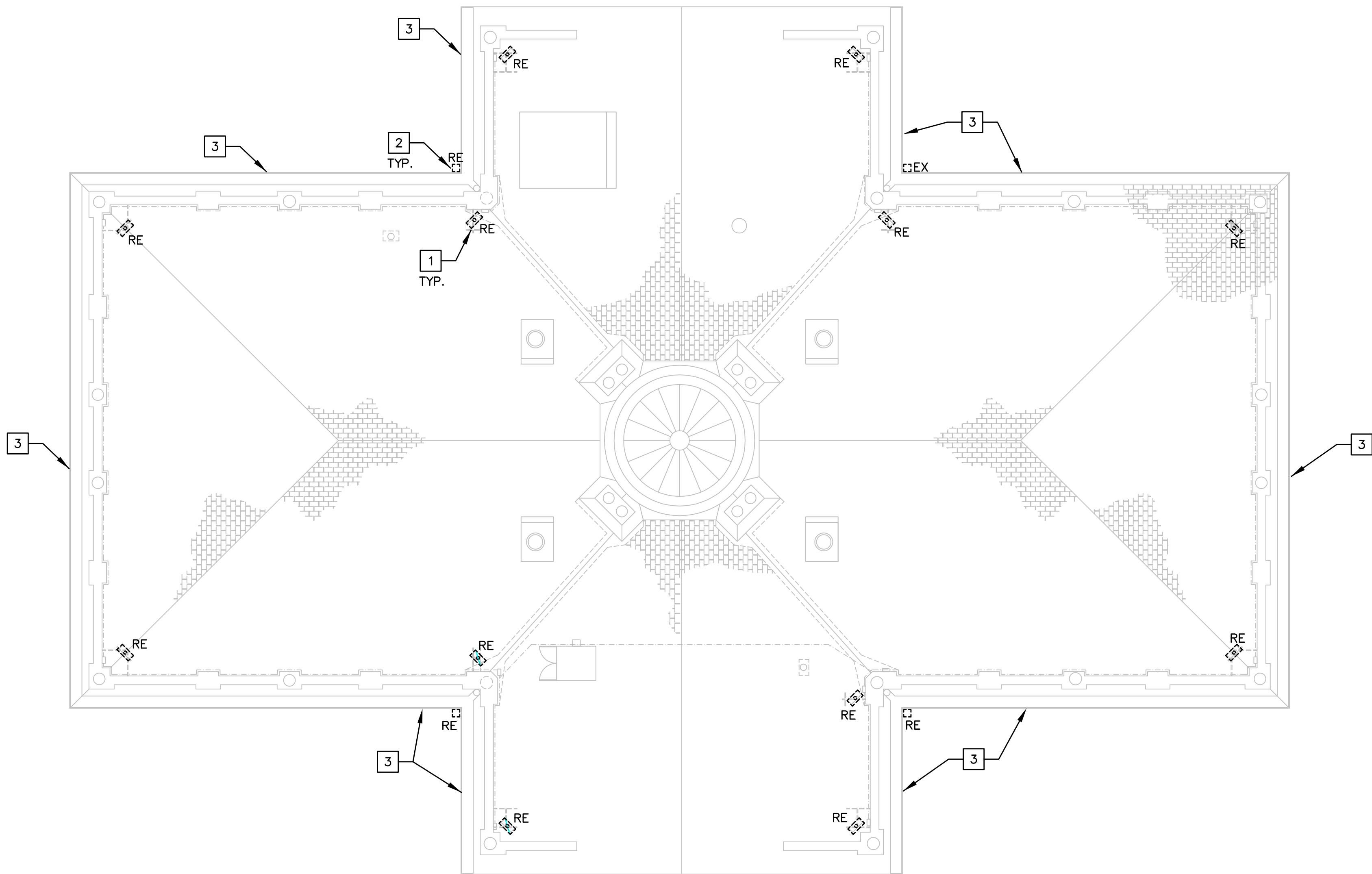
NOTES:

- BIDS SHALL BE BASED ON THE LUMINAIRE SCHEDULE BELOW AND THE SPECIFICATIONS. REFER TO THE ELECTRICAL SPECIFICATIONS FOR ADDITIONAL GENERAL REQUIREMENTS.
- PROVIDE MOCK UP WITH (1) EA1A, (2) EA1B, (3) EA2A, (1) EA2B AND (1) EA2C FOR NORTH AND EAST SIDES BEFORE ORDERING LUMINAIRES.
- AS PART OF OF SHOP DRAWING SUBMITTAL, EQUIVALENT MANUFACTURER SHALL PROVIDE POINT BY POINT VERTICAL FOOT CANDLE CALCULATION WITH RENDERING ALONG CUPOLA. PROVIDE AVERAGE, MINIMUM, MAXIMUM, AND UNIFORMITY OF FOOT CANDLE LEVEL AS PART OF CALCULATION. FOOT CANDLE CALCULATION CRITERIA ARE AS FOLLOWS:
AVERAGE FOOT CANDLE: 6.5 OR BETTER,
MINIMUM FOOT CANDLE: 4.5 TO 5.0 OR BETTER,
MAXIMUM FOOT CANDLE: 8.5 OR BETTER,
UNIFORMITY: BETTER THAN 2.1 MAXIMUM-TO-MINIMUM,
CALCULATION POINT SPACING 2FT ON CENTER.
LIGHT LOSS FACTOR: 0.85 OVERALL.

TYPE	MANUFACTURER	FIXTURE DESCRIPTION	VOLTS	LAMPS
EA1A	COLOR KINETICS eW BLAST POWERCORE #523-000069-13/ 120-000019-04 SERIES OR ACCEPTABLE EQUIVALENT	POST MOUNTED WHITE LED LUMINAIRE: DIE-CAST ALUMINUM HOUSING; BLACK FINISH; 36" BEAM ANGLE OPTICS, FROSTED TEMPERED FLAT GLASS LENS; INTEGRAL MOUNTED LED DRIVER; EACH LED HAS A CLEAR CONICAL PLASTIC REFLECTOR WITH RECESSED MICRO-PRISMATIC BOTTOM CENTER; EACH REFLECTOR IS ENCASED IN A MOLDED BLACK PLASTIC FRAME; VERTICAL BASE-UP POSITION; PROVIDE WITH 6 FEET UNIFIED POWER/DATA CABLE; FIXTURE SHALL HAVE A LOCKING CANOPY BASE FOR 350° ROTATION AND 110° FIXTURE TILTING; POWER FACTOR CORRECTION OF AT LEAST 0.95; LUMENS MAINTENANCE: 70,000 HOURS L70 @25°C; MEET IP66 REQUIREMENT; UL LISTED FOR WET LOCATION; COMPLY WITH RANDOM VIBRATION MIL-STD 810 CATEGORY 24; PASS TEMPERATURE RANGE OPERATIONAL TESTING FROM -40°C TO 50°C.; BLACK FINISH BARN DOORS; PROVIDE MOUNTING BRACKET, HARDWARE AND ALL ACCESSORIES FOR COMPLETE INSTALLATION; SEE ARCHITECTURAL PLANS FOR MOUNTING DETAILS.	120 V	50W TOTAL 2141 LUMENS 82 CRI 4000K
EA1B	COLOR KINETICS eW BLAST POWERCORE #523-000069-11/ 120-000019-04 SERIES OR ACCEPTABLE EQUIVALENT	LUMINAIRE AND LAMP SAME AS [EA1A] EXCEPT WITH 21" BEAM ANGLE OPTICS, FROSTED TEMPERED FLAT GLASS LENS.	120 V	50W TOTAL 1935 LUMENS 82 CRI 4000K
EA2A	COLOR KINETICS eW REACH POWERCORE #523-000044-01/ 120-000068-01/4725.BD SERIES OR ACCEPTABLE EQUIVALENT	POST MOUNTED WHITE LED LUMINAIRE: DIE-CAST ALUMINUM HOUSING; BLACK FINISH; 23" BEAM ANGLE OPTICS, CLEAR TEMPERED FLAT GLASS ENCLOSURE WITH FROSTED PLASTIC OUTER LENS; SPREAD LENSES; INTEGRAL MOUNTED LED DRIVER; PROVIDE WITH 6 FEET LEADER CABLE; MOLDED PLASTIC REFLECTORS; FIXTURE SHALL HAVE A MOUNTING BRACKET THAT ALLOWS SIMPLE POSITIONING AND 360° ROTATION; POWER FACTOR CORRECTION OF AT LEAST 0.95; LUMENS MAINTENANCE: 70,000 HOURS L70 @25°C; MEET IP66 REQUIREMENT; UL LISTED FOR WET LOCATION; COMPLY WITH RANDOM VIBRATION MIL-STD 810 CATEGORY 24; PASS TEMPERATURE RANGE OPERATIONAL TESTING FROM -40°C TO 50°C.; BLACK FINISH BARN DOORS; PROVIDE MOUNTING BRACKET, YOKE, HARDWARE AND ALL ACCESSORIES FOR COMPLETE INSTALLATION; SEE ARCHITECTURAL PLANS FOR MOUNTING DETAILS.	120 V	250W TOTAL 9935 LUMENS 80 CRI 4000K
EA2B	COLOR KINETICS eW REACH POWERCORE #523-000044-01/ 120-000068-01/02/ 4725.BD SERIES OR ACCEPTABLE EQUIVALENT	LUMINAIRE AND LAMP SAME AS [EA2A] EXCEPT WITH 23" BEAM ANGLE OPTICS, FROSTED TEMPERED FLAT GLASS LENS ON HALVES OF THE LUMINAIRE AND 40" BEAM ANGLE OPTICS, FROSTED TEMPERED FLAT GLASS LENS ON OTHER HALVES OF THE LUMINAIRE.	120 V	250W TOTAL 9935 LUMENS 80 CRI 4000K
EA2C	COLOR KINETICS eW REACH POWERCORE #523-000044-01/ 120-000068-02/03/ 4725.BD SERIES OR ACCEPTABLE EQUIVALENT	LUMINAIRE AND LAMP SAME AS [EA2A] EXCEPT WITH 40" BEAM ANGLE OPTICS, FROSTED TEMPERED FLAT GLASS LENS ON HALVES OF THE LUMINAIRE AND 63" BEAM ANGLE OPTICS, FROSTED TEMPERED FLAT GLASS LENS ON OTHER HALVES OF THE LUMINAIRE.	120 V	250W TOTAL 9935 LUMENS 80 CRI 4000K

seals	drawing title ELECTRICAL GENERAL NOTES AND ABBREVIATIONS			STATE OF CONNECTICUT OFFICE OF LEGISLATIVE MANAGEMENT		
	REVISION					
	mark	date	description	PLANS PREPARED BY BVH INTEGRATED SERVICES <small>50 GRIFFIN ROAD SOUTH, BLOOMFIELD, CT 06002</small>		
				date 04/13/12		
				scale NONE		
drawn by MB						
CAD no.			approved JP			
			drawing no.			
			project no. CT-7301			
			E-001			

4/12/12 4:45:34 PM W:\2011\101006 - Old State House Roof Replacement\DWGS\E\ED-Roof.dwg



DEMOLITION NOTES

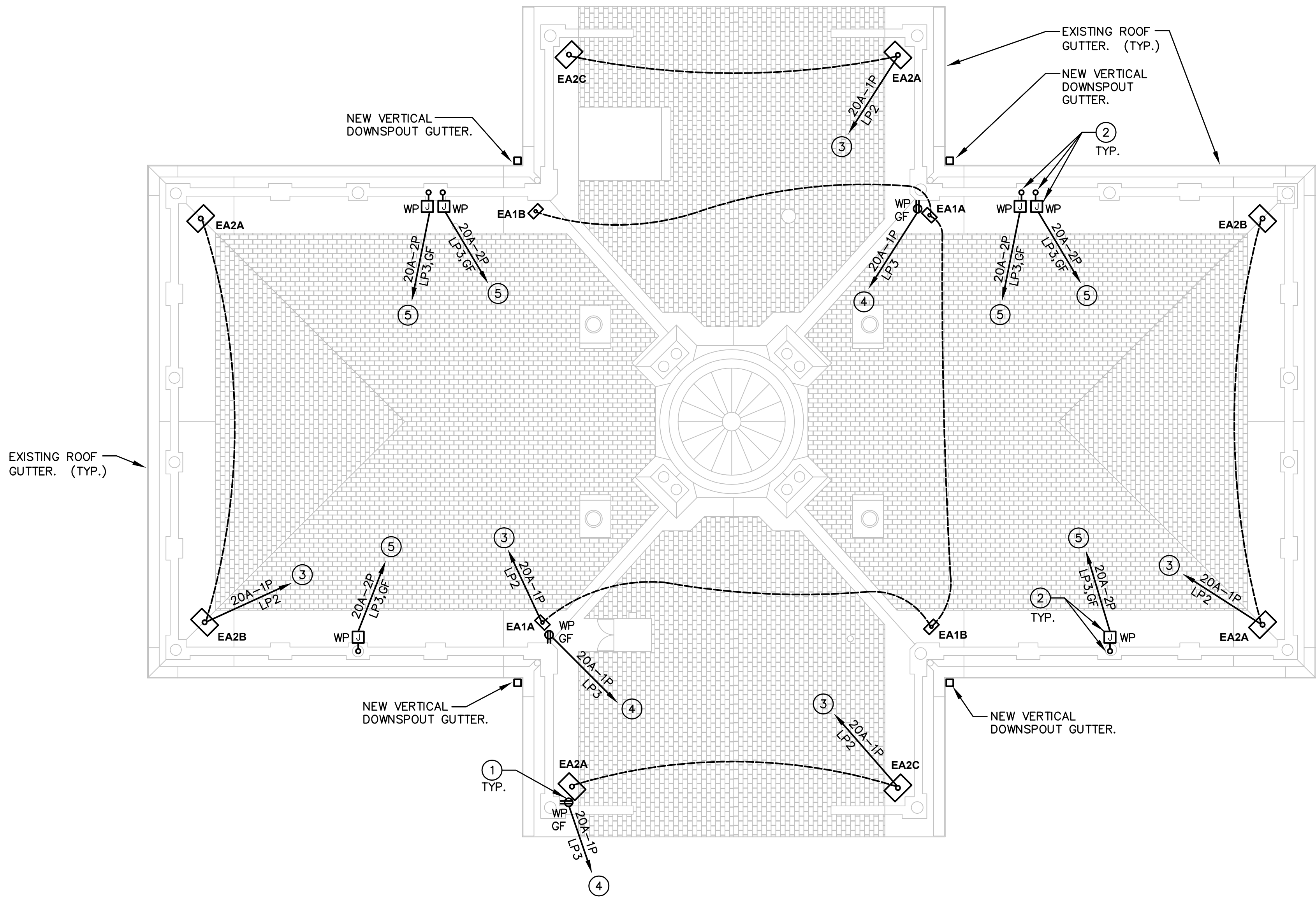
- 1 REMOVE EXISTING ROOF MOUNTED HID METAL HALIDE LAMP LIGHTING FIXTURE. REMOVE EXISTING CONDUIT AND WIRING BACK TO THE SOURCES.
- 2 EXISTING VERTICAL DOWNSPOUT GUTTER TO BE REMOVED BY OTHERS.
- 3 EXISTING HORIZONTAL MOUNTED ROOF GUTTER TO REMAIN.

GENERAL NOTES

1. EXISTING DE-ICING HEAT TRACING CABLING SYSTEM EQUIPMENTS FOR ROOF GUTTERS SHALL BE REMOVED BY THE OWNER UPTO POWER CONNECTION. ELECTRICAL CONTRACTOR SHALL DISCONNECT AND REMOVE EXISTING POWER CONNECTION, ASSOCIATED BACKBOXES, CONDUITS AND WIRING BACK TO THE SOURCES.
2. REMOVE ALL EXISTING CONVENIENCE POWER OUTLETS MOUNTED ON ROOF, INCLUDING WITH ALL ASSOCIATED EXISTING CONDUITS AND WIRING BACK TO THE SOURCES.

seals	drawing title ROOF ELECTRICAL DEMOLITION PLAN			STATE OF CONNECTICUT OFFICE OF LEGISLATIVE MANAGEMENT		
	REVISION					
	mark	date	description	PLANS PREPARED BY BVH INTEGRATED SERVICES 50 GRIFFIN ROAD SOUTH, BLOOMFIELD, CT 06002		
				date 04/13/12 scale 1/8"= 1'-0"		
				drawn by MB approved JP drawing no.		
CAD no.				project no. CT-7301 ED-101		

4/12/12 4:45:39 PM W:\2011\1011006 - Old State House Roof Replacement\DWG\E\F-Roof.dwg



DRAWING NOTES

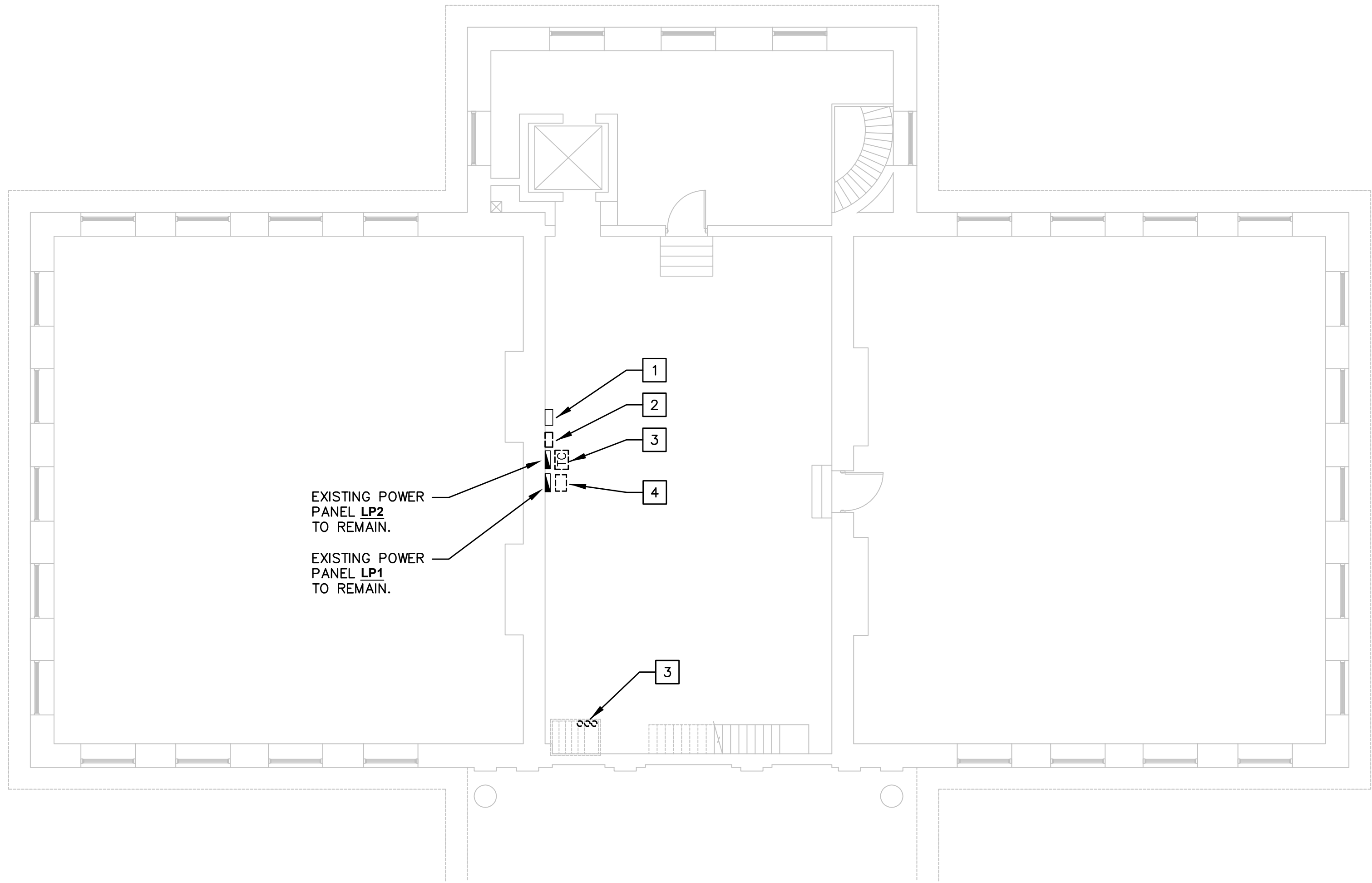
- 1 PROVIDE WEATHER-PROOF GF DUPLEX RECEPTACLE OUTLET IN THERMOPLASTIC NEMA 4 ENCLOSURE. PROVIDE DOUBLE GANG BACK BOXES.
- 2 PROVIDE WEATHERPROOF JUNCTION BOX FOR POWER WIRING FOR DE-ICING HEAT TRACING SYSTEM FOR ROOF GUTTERS. JUNCTION BOX SHALL BE MOUNTED ON THE POST. COORDINATE EXACT LOCATION IN THE FIELD. CONDUIT SHALL RISE UP IN THE POST FROM ATTIC.
- 3 EXTERIOR ROOF MOUNTED LIGHTING FIXTURES CIRCUIT SHALL BE CONTROLLED THRU TIME CLOCK AND CONTACTOR. SEE EXTERIOR ROOF MOUNTED LIGHTING CONTROL WIRING DETAIL ON DRAWING # E-101 FOR MORE INFORMATION. PROVIDE 2 #10 & 1 #10 GND IN 1". REUSE EXISTING SPARE 20A-1P C/B LOCATED IN EXISTING POWER PANEL "LP2" LOCATED IN ATTIC TO FEED NEW CIRCUIT.
- 4 PROVIDE 2 #10 & 1 #10 GND IN 1".
- 5 PROVIDE 20A-2P, 30MA GROUND FAULT TYPE C/B IN NEW POWER PANEL "LP3" LOCATED IN ATTIC. PROVIDE 2 #10 & 1 #10 GND IN 1".

GENERAL NOTES

- 1. DE-ICING HEAT TRACING SYSTEM EQUIPMENTS FOR ROOF GUTTERS SHALL BE FURNISHED AND INSTALLED BY THE OWNER.
- 2. NEW SENSOR FOR DE-ICING HEAT TRACING SYSTEM SHALL BE INSTALLED IN ROOF GUTTER. COORDINATE EXACT LOCATION IN THE FIELD.
- 3. NO EXPOSED CONDUITS SHALL BE RUN ON THE ROOF. ALL CONDUITS SERVING ELECTRICAL EQUIPMENT OR DEVICES LOCATED ON THE ROOF SHALL RISE UP DIRECTLY FROM ATTIC TO THE LOCATION OF EQUIPMENT OR DEVICES THRU POST STRUCTURAL TUBES.
- 4. PROVIDE POST MOUNTED WEATHER-PROOF JUNCTION BOXES FOR POWER WIRING FOR ALL LIGHTING FIXTURES. ALL CONDUITS SERVING LIGHTING FIXTURES ON ROOF SHALL BE RUN IN THE POST STRUCTURAL TUBES.

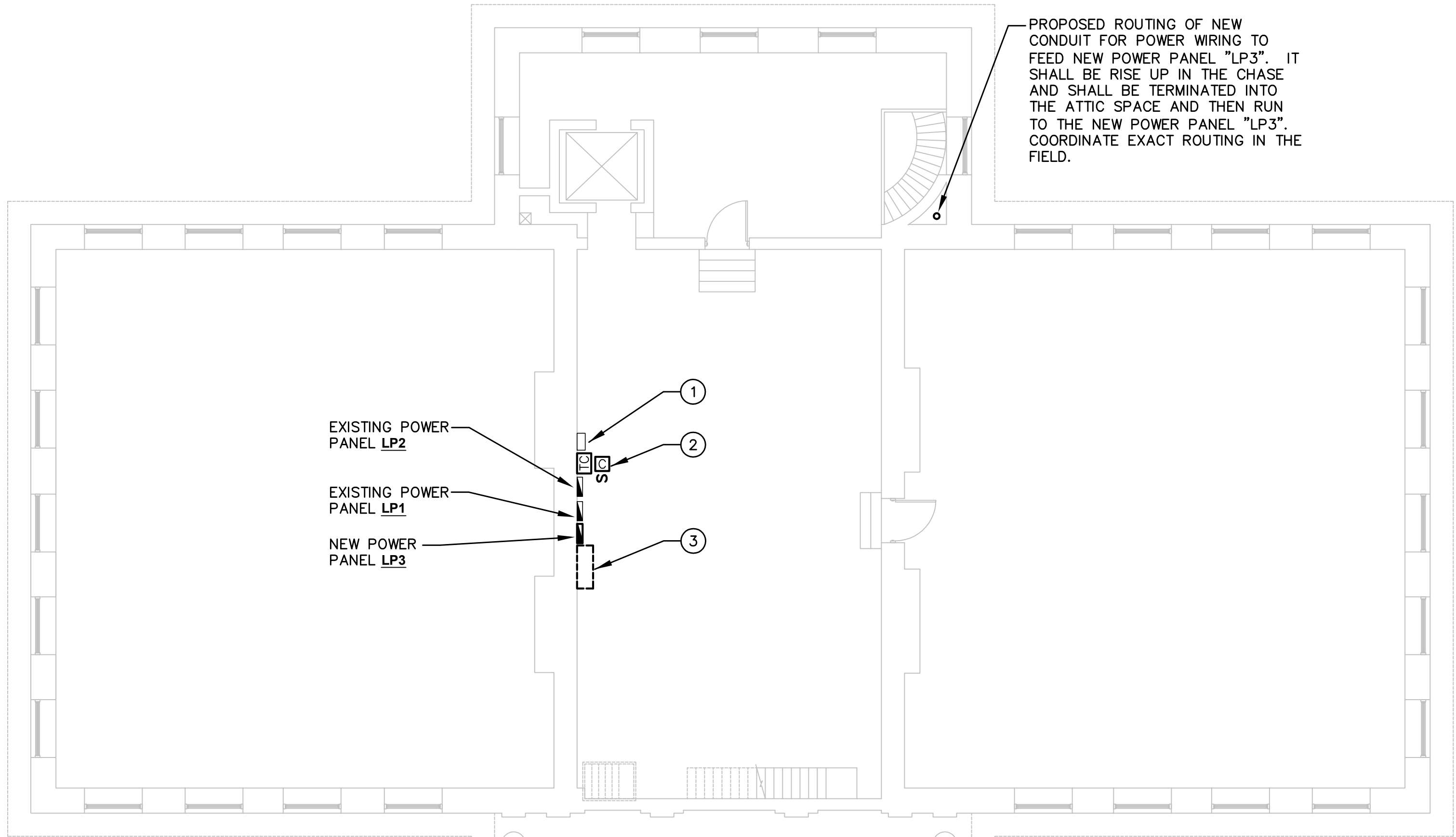
seals	drawing title ROOF ELECTRICAL PLAN			STATE OF CONNECTICUT OFFICE OF LEGISLATIVE MANAGEMENT		
	REVISION					
	mark	date	description	PLANS PREPARED BY BVH INTEGRATED SERVICES 50 GRIFFIN ROAD SOUTH, BLOOMFIELD, CT 06002		
				date 04/13/12 scale 1/8"=1'-0"		
	CAD no.			drawing no. E-101		

4/12/12 4:45:57 PM W:\2011\1011006 - Old State House Roof Replacement\DWG\E\E-Attic.dwg



ATTIC ELECTRICAL DEMOLITION PLAN

SCALE: 1/8"=1'-0"

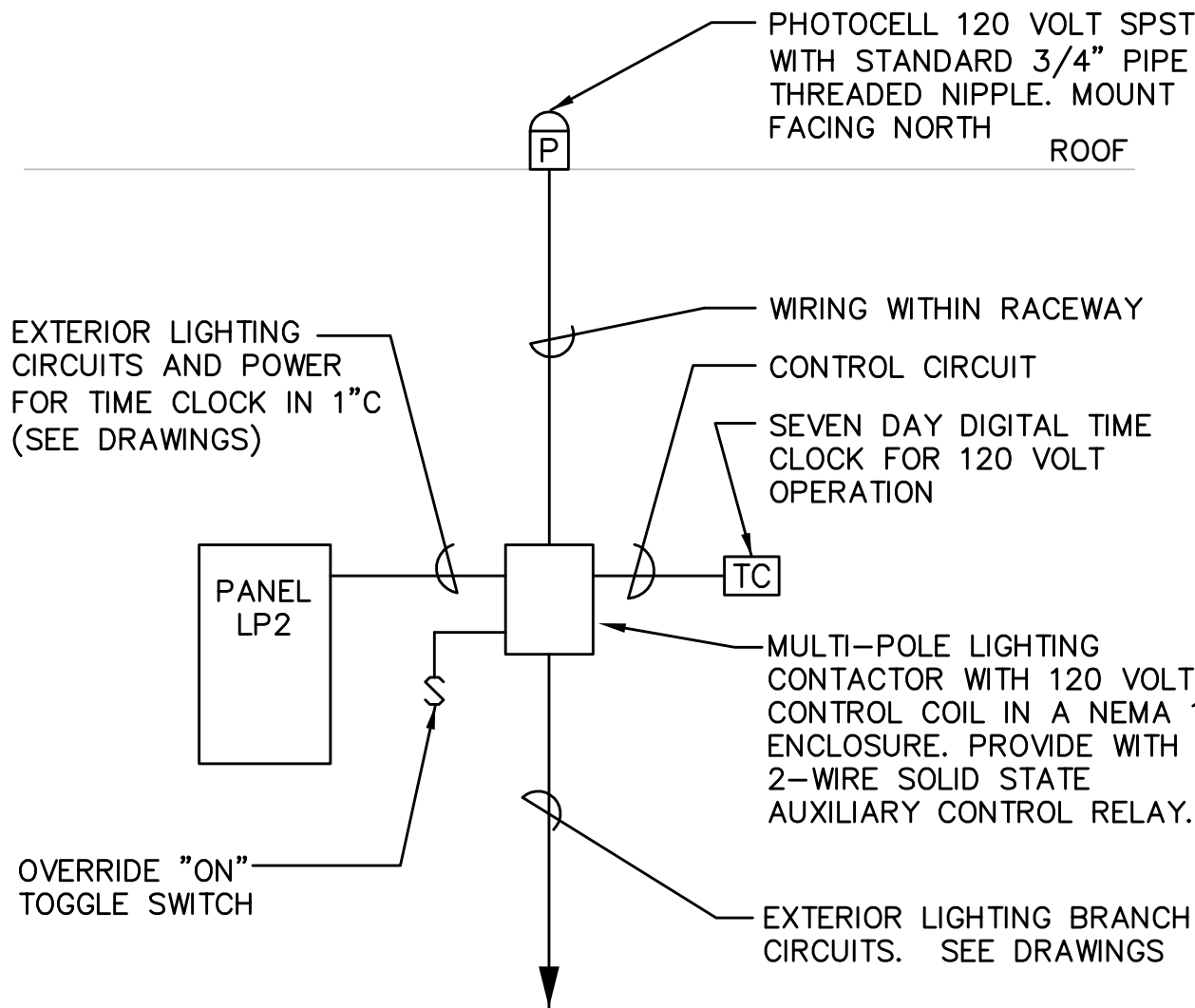


ATTIC ELECTRICAL PLAN

SCALE: 1/8"=1'-0"

DEMOLITION NOTES

- EXISTING CLOCK SYSTEM EQUIPMENT TO REMAIN.
- REMOVE EXISTING ETI-APS-3A DE-ICING CONTROLLER FOR EXISTING DE-ICING AND SNOW MELTING SYSTEM FOR ROOF & GUTTERS BEING REMOVED. REMOVE EXISTING CONDUITS AND WIRING BACK TO THE SOURCES.
- REMOVE EXISTING TIME CLOCK FOR ROOF MOUNTED LIGHTING FIXTURES BEING REMOVED. REMOVE EXISTING CONDUITS AND WIRING BACK TO THE SOURCES.
- REMOVE EXISTING DE-ICING AND SNOW MELTING SYSTEM EQUIPMENT FOR ROOF & GUTTERS BEING REMOVED. REMOVE EXISTING CONDUITS AND WIRING BACK TO THE SOURCES.
- REMOVE ALL EXISTING IN-ACTIVE CIRCUITS AND ASSOCIATED CONDUITS BACK TO THE SOURCES. VERIFY EXACT QUANTITIES IN THE FIELD.



NOTE

SEE SPECIFICATIONS FOR EXTERIOR LIGHTING CONTROL EQUIPMENT.

EXTERIOR ROOF MOUNTED LIGHTING CONTROL WIRING DETAIL

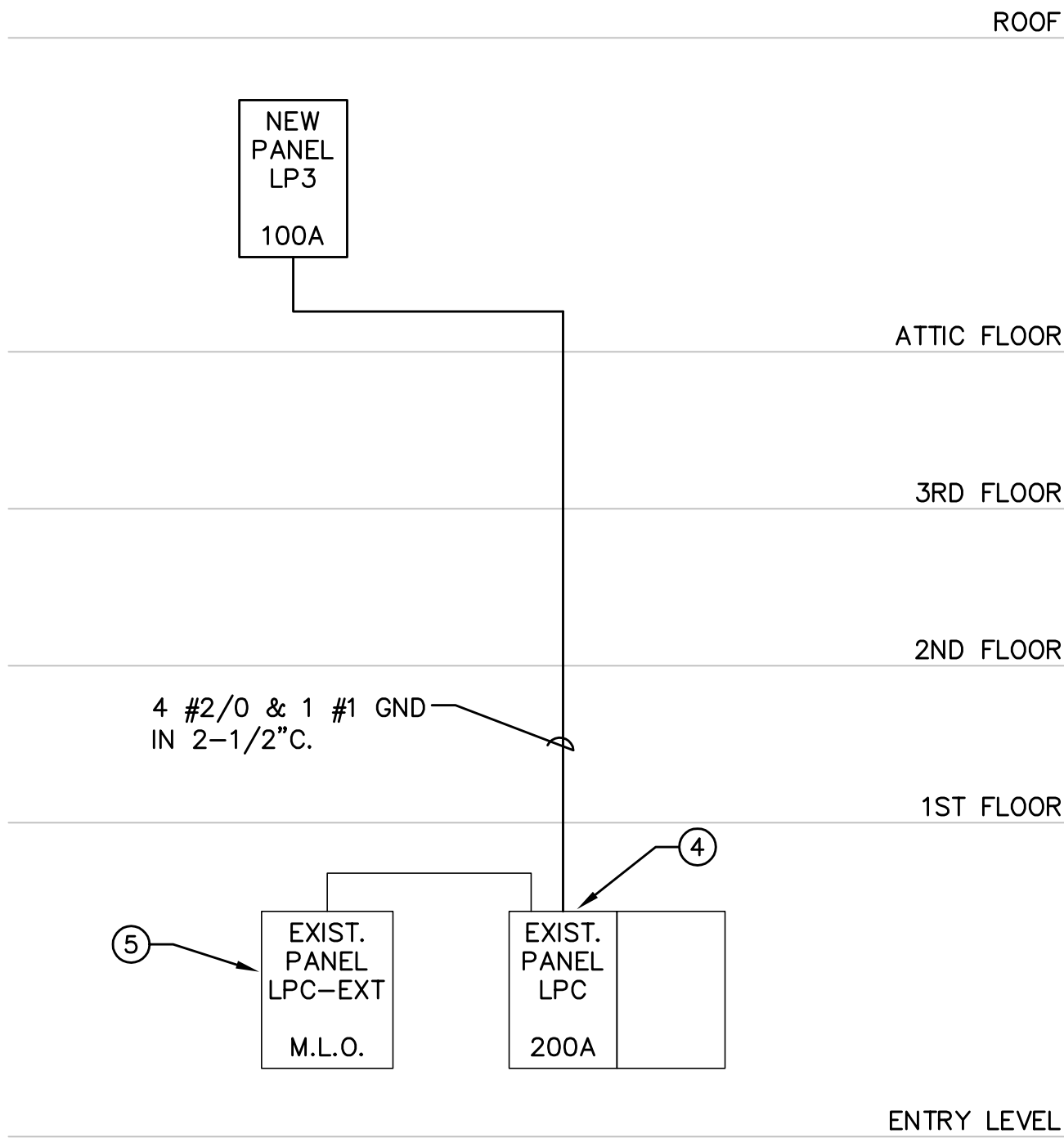
NOT TO SCALE

DRAWING NOTES

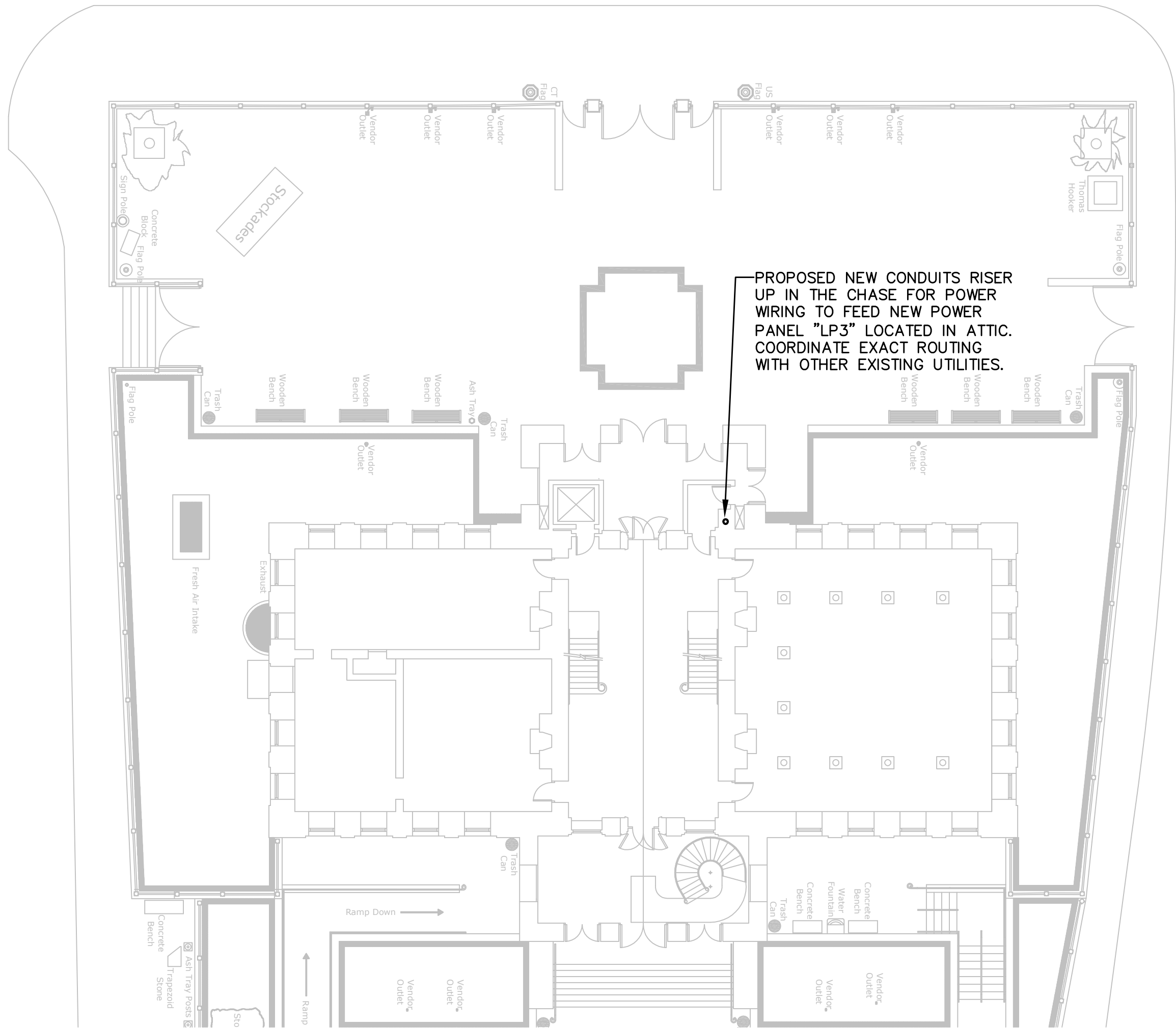
- EXISTING CLOCK SYSTEM EQUIPMENT.
- NEW TIME CLOCK, CONTACTOR AND OVERRIDE "ON" TOGGLE SWITCH FOR NEW ROOF MOUNTED LIGHTING FIXTURE. COORDINATE EXACT LOCATION IN THE FIELD.
- PROPOSED SPACE ALLOCATION FOR NEW CONTROLLER, CONTACTOR AND EQUIPMENT FOR DE-ICING HEAT TRACING SYSTEM FOR ROOF GUTTERS. ALL EQUIPMENT FOR DE-ICING HEAT TRACING SYSTEM FOR ROOF GUTTERS SHALL BE FURNISHED AND INSTALLED BY THE OWNER. EXACT LOCATION OF ALL EQUIPMENT TO BE DETERMINED IN THE FIELD.
- PROVIDE NEW 100A-3P C/B IN EXISTING POWER PANEL "LPC" TO FEED NEW POWER PANEL "LP3" LOCATED IN ATTIC. MATCH AISC RATING WITH EXISTING. PROVIDE APPROPRIATE LUGS SIZE TO ACCOMMODATE THE LARGER SIZE FEEDERS REQUIRED DUE TO THE VOLTAGE DROP. DISCONNECT (3) EXISTING 20A-1P CIRCUITS FED FROM EXISTING POWER PANEL "LPC" TO ACCOMMODATE THE INSTALLATION OF NEW 100A-3P C/B. RE-FEED (3) EXISTING 20A-1P CIRCUITS FROM EXISTING POWER PANEL "LPC-EXT". PROVIDE JUNCTION BOX PER NEC CODE TO INTERCEPT THE EXISTING CIRCUITS. CONTRACTOR SHALL FIELD VERIFY WHICH (3) EXISTING 20A-1P CIRCUITS TO BE RE-FED FROM EXISTING POWER PANEL "LPC-EXT".
- PROVIDE (3) NEW 20A-1P C/B'S IN EXISTING POWER PANEL "LPC-EXT" TO RE-FEED (3) EXISTING 20A-1P CIRCUITS ORIGINALLY FED FROM EXISTING POWER PANEL "LPC". MATCH AISC RATING WITH EXISTING.

PARTIAL POWER RISER DIAGRAM

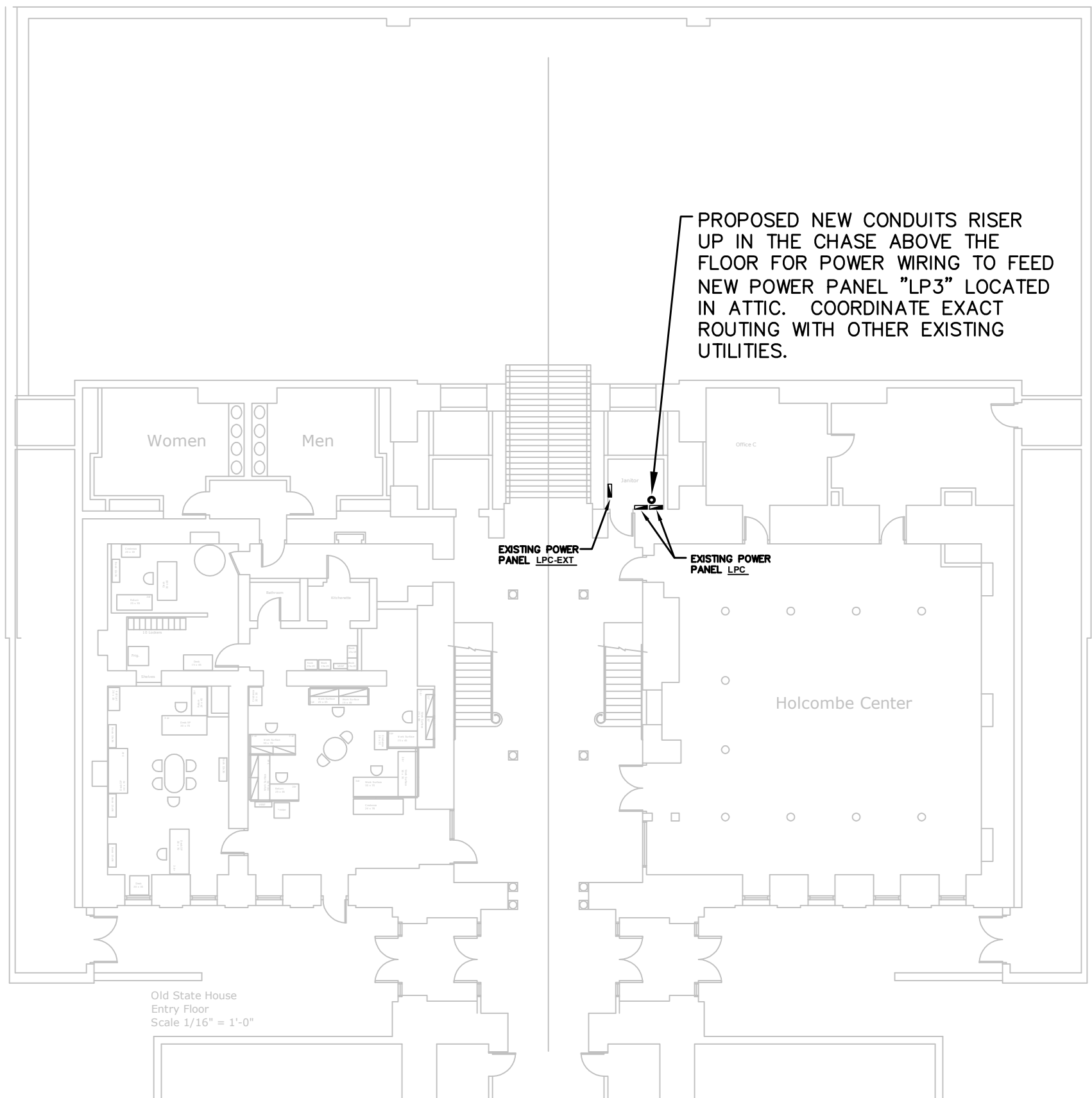
NOT TO SCALE



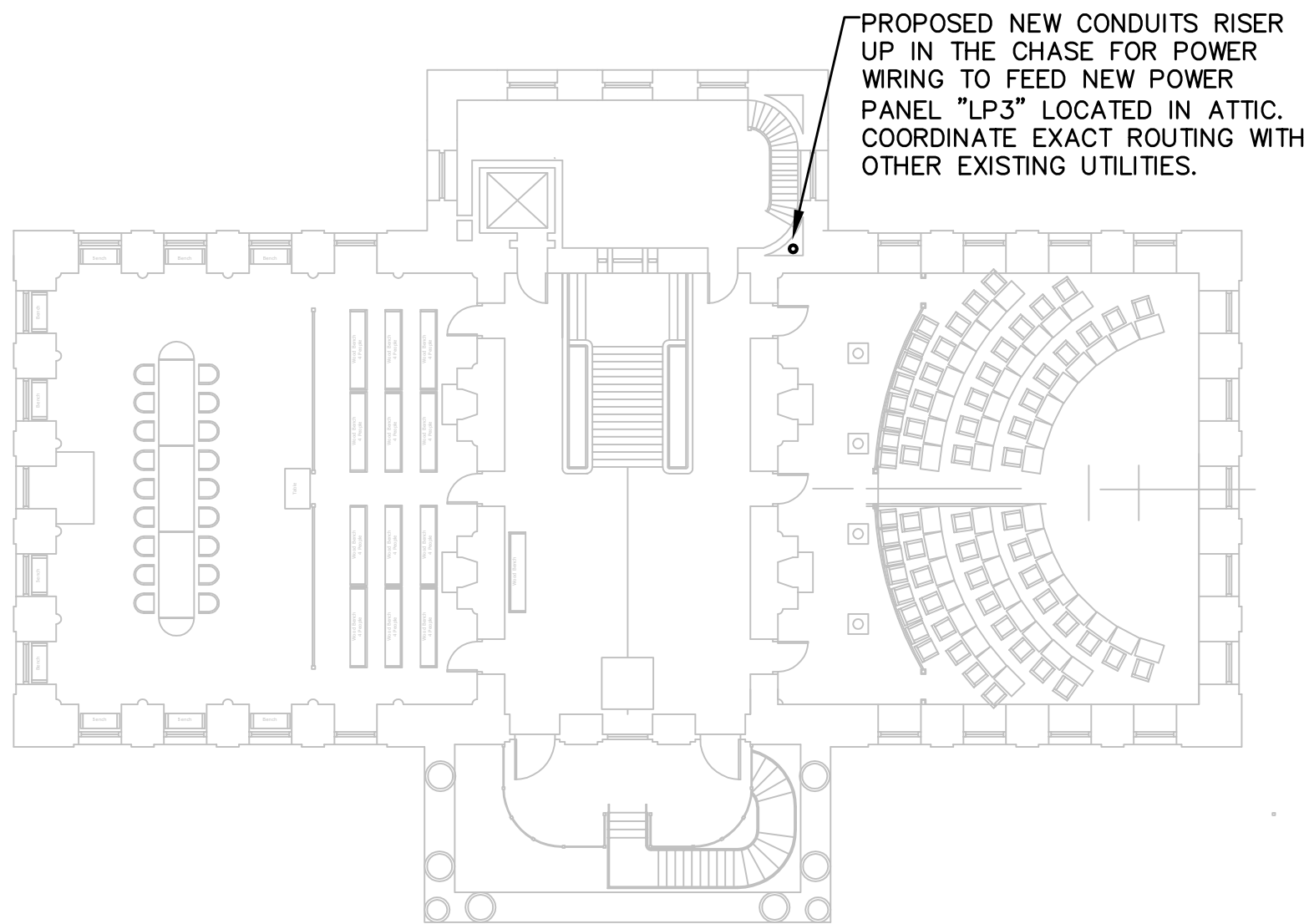
seals	drawing title ATTIC ELECTRICAL PLANS			STATE OF CONNECTICUT OFFICE OF LEGISLATIVE MANAGEMENT		
	REVISION					
	mark	date	description	PLANS PREPARED BY BVH INTEGRATED SERVICES		
				50 GRIFFIN ROAD SOUTH, BLOOMFIELD, CT 06002		
	CAD no.			project CONNECTICUT'S OLD STATE HOUSE ROOF REPLACEMENT & FACADE RENOVATIONS 800 MAIN STREET HARTFORD, CT 06106		date 04/13/12
				scale 1/8"= 1'-0"		
				drawn by MB		
				approved JP		
					drawing no. E-102	
			project no. CT-7301			



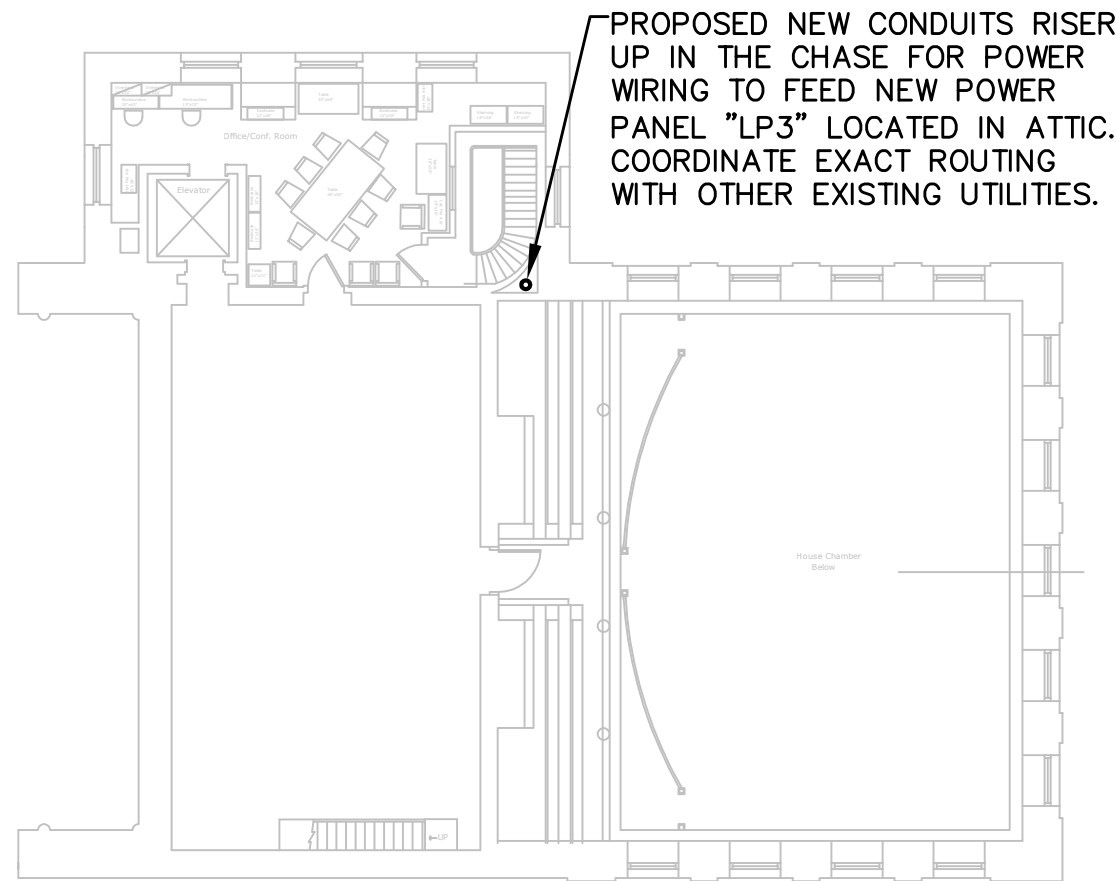
GROUND AND FIRST FLOOR PLAN
SCALE: 1/16"=1'-0"



ENTRY LEVEL PLAN
SCALE: 1/16"=1'-0"



SECOND FLOOR PLAN
SCALE: 1/16"=1'-0"



THIRD FLOOR PLAN
SCALE: 1/16"=1'-0"

seals	drawing title ELECTRICAL PART PLANS			STATE OF CONNECTICUT OFFICE OF LEGISLATIVE MANAGEMENT		
	REVISION					
	mark	date	description	PLANS PREPARED BY BVH INTEGRATED SERVICES 50 GRIFFIN ROAD SOUTH, BLOOMFIELD, CT 06002		
				project CONNECTICUT'S OLD STATE HOUSE ROOF REPLACEMENT & FACADE RENOVATIONS 800 MAIN STREET HARTFORD, CT 06106		
	CAD no.			project no. CT-7301		
date 04/13/12 scale 1/16"=1'-0" drawn by MB approved JP drawing no. E-201						